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MEAN WELL

SWITCHING POWER SUPPLY

ISO-9001 CERTIFIED MANUFACTURER

PD-25 SERIES

Jameco Part Number 212311 (PD-2505)

.LOW COST, HIGH RELIABILITY
.105°C OUTPUT CAPACITOR
.INTERNATIONAL AC INPUT RANGE
.HIGH EFFICIENCY, LOW WORKING TEMPERATURE
.SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT
.SHORT CIRCUIT, OVERLOAD, OVER VOLTAGE PROTECTED
.COMPACT SIZE, LIGHT WEIGHT
.100% FULL LOAD BURN-IN TEST
.BUILT IN EMI FILTER, LOW RIPPLE NOISE

MODEL / SPECIFICATION	PD-25A		PD-25B		PD-2505		PD-2512		PD-2515	
	CH1	CH2	CH1	CH2	CH1	CH2	CH1	CH2	CH1	CH2
DC OUTPUT VOLTAGE	5V	12V	5V	24V	5V	-5V	12V	-12V	15V	-15V
OUTPUT V. TOLERANCE	±2%	±6%	±2%	±6%	±6%	±6%	±4%	±4%	±4%	±4%
OUTPUT RATED CURRENT	2.1A	1.2A	1.2A	0.8A	2.5A	2.5A	1A	1A	0.8A	0.8A
OUTPUT CURRENT RANGE	0.2-2.5A	0.1-1.5A	0.2-2A	0.1-1A	0.1-3A	0.1-2.5A	0.1-1.2A	0.1-1.2A	0.1-1A	0.1-1A
RIPPLE & NOISE (Vp-p)	50m	150m	50m	200m	50m	50m	50m	50m	50m	50m
LINE REGULATION	±0.5%	±2%	±0.5%	±2%	±1%	±1%	±0.5%	±0.5%	±0.5%	±0.5%
LOAD REGULATION	±1%	±4%	±1%	±4%	±4%	±4%	±3%	±3%	±3%	±3%
DC OUTPUT POWER	25W		25.2W		25W		24W		24W	
EFFICIENCY	71%		77%		73%		74%		75%	
DC VOLTAGE ADJ.	----------									
INPUT VOLTAGE RANGE	85~264VAC 47~63Hz; 120~370VDC									
AC CURRENT	0.65A/115V 0.4A/230V									
INRUSH CURRENT	COLD START 40A									
LEAKAGE CURRENT	<0.5mA/240VAC									
OVERLOAD PROTECTION	ABOVE 105% TYPE:PULSING HICCUP SHUTDOWN RESET:AUTO RECOVERY									
OVER VOLTAGE PROTECTION	CH1,CH2:115%~135%									
OVER TEMP. PROTECTION	U1 Tj 135°C TYPICALLY POWER SHUTDOWN									
TEMP. COEFFICIENT	±0.03% / °C (0~50°C) ON CH1 OUTPUT									
SETUP, RISE, HOLD UP TIME	250ms, 30ms, 16ms/115VAC 250ms, 50ms, 50ms / 230VAC									
VIBRATION	10~500Hz, 2G 10min./1cycle, PERIOD FOR 60min. EACH AXES									
WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC									
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:500VDC / 100M Ohms									
WORKING TEMP., HUMIDITY	-10°C~+60°C(REFER TO OUTPUT DERATING CURVE), 20%~90% RH									
STORAGE TEMP., HUMIDITY	-20°C~+85°C, 10%~95% RH									
DIMENSION	107*61*30mm									
WEIGHT	0.15Kgs									
SAFETY STANDARDS	UL1950, TUV EN60950 APPROVED									
EMC STANDARDS	CISPR22 (EN55022), IEC1000-4-2,3,4,5 IEC1000-3-2,3 VERIFICATION									

NOTE :
1.ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25°C 70% RH. AMBIENT.
2.TOLERANCE GINCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
3.RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
4.LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
5.LOAD REGULATION IS MEASURED FROM 20% TO 100% RATED LOAD, AND OTHER OUTPUT AT 60% RATED LOAD.
6.EACH OUTPUT PROVIDE UP TO MAXIMUM CURRENT, BUT TOTAL LOAD CAN NOT EXCEED MAX. OUTPUT POWER.

2002-03-05

NEXT (MECHANICAL INFO)

MEAN WELL

SWITCHING POWER SUPPLY

ISO-9001 CERTIFIED MANUFACTURER

PD-2503

.LOW COST, HIGH RELIABILITY
.COMPACT SIZE, LIGHT WEIGHT
.105°C OUTPUT CAPACITOR
.100% FULL LOAD BURN-IN TEST
.INTERNATIONAL AC INPUT RANGE
.BUILT IN EMI FILTER, LOW RIPPLE NOISE
.HIGH EFFICIENCY, LOW WORKING TEMPERATURE
.SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT
.SHORT CIRCUIT, OVERLOAD, OVER VOLTAGE PROTECTED

MODEL / SPECIFICATION	CH1	CH2
DC OUTPUT VOLTAGE	5V	3.3V
OUTPUT V. TOLERANCE	+5,-8%	±2%
OUTPUT RATED CURRENT	3A	3A
OUTPUT CURRENT RANGE	0.1-4A	0.2-5A
RIPPLE & NOISE	50mVp-p	50mVp-p
LINE REGULATION	±2%	±1%
LOAD REGULATION	±4%	±1%
DC OUTPUT POWER	24.9W (CH1+CH2 <= 6A)	
EFFICIENCY	72%	
DC VOLTAGE ADJ.	SET CH2 +3.3V : 3.35~3.40V	
INPUT VOLTAGE RANGE	85~264VAC 47~440Hz; 120~370VDC	
AC CURRENT	0.65A/115V 0.4A/230V	
INRUSH CURRENT	COLD START 40A	
LEAKAGE CURRENT	<0.5mA/240VAC	
OVERLOAD PROTECTION	ABOVE 105% TYPE:PULSING HICCUP SHUTDOWN RESET:AUTO RECOVERY	
OVER VOLTAGE PROTECTION	CH1,CH2:115%~135%	
OVER TEMP. PROTECTION	U1 Tj 135°C TYPICALLY POWER SHUTDOWN	
TEMP. COEFFICIENT	±0.03% / °C (0~50°C) ON CH1 OUTPUT	
SETUP, RISE, HOLD UP TIME	250ms, 30ms, 16ms/115VAC 250ms, 50ms, 50ms / 230VAC	
VIBRATION	10~500Hz, 2G 10min./1cycle, PERIOD FOR 60min. EACH AXES	
WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC	
ISOLATION RESISTANCE	I/P-O/P, I/P-FG:500VDC / 100M Ohms	
WORKING TEMP., HUMIDITY	-10°C~+70°C(REFER TO OUTPUT DERATING CURVE), 20%~90% RH	
STORAGE TEMP., HUMIDITY	-20°C~+85°C, 10%~95% RH	
DIMENSION	107*61*30mm	
WEIGHT	0.15Kgs	
SAFETY STANDARDS	UL1950, TUV EN60950 APPROVED	
EMC STANDARDS	CISPR22 (EN55022), IEC1000-4-2,3,4,5 IEC1000-3-2,3	

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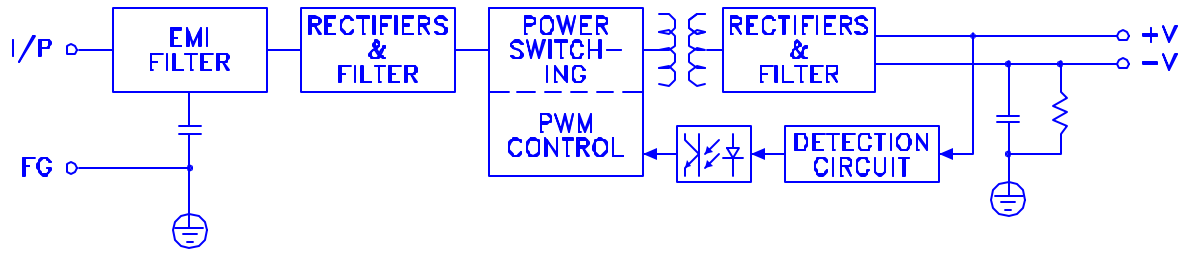
6.EACH OUTPUT PROVIDE UP TO MAXIMUM CURRENT, BUT TOTAL LOAD CAN NOT EXCEED MAX. OUTPUT POWER.

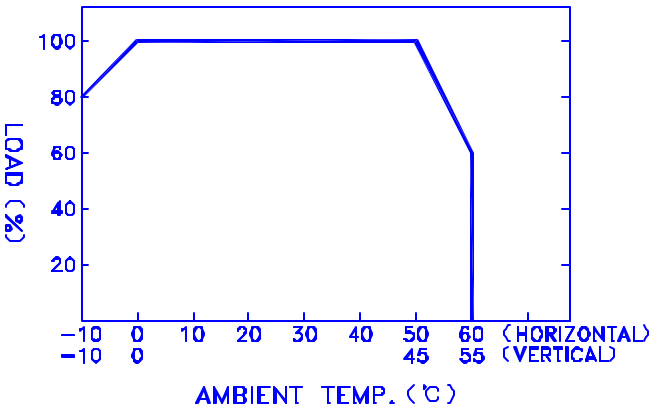
2002-03-05

BLOCK DIAGRAM

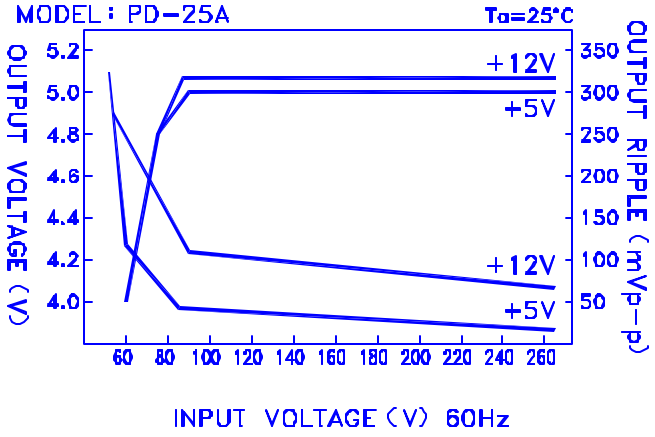


fosc : 100KHz

OUTPUT DERATING

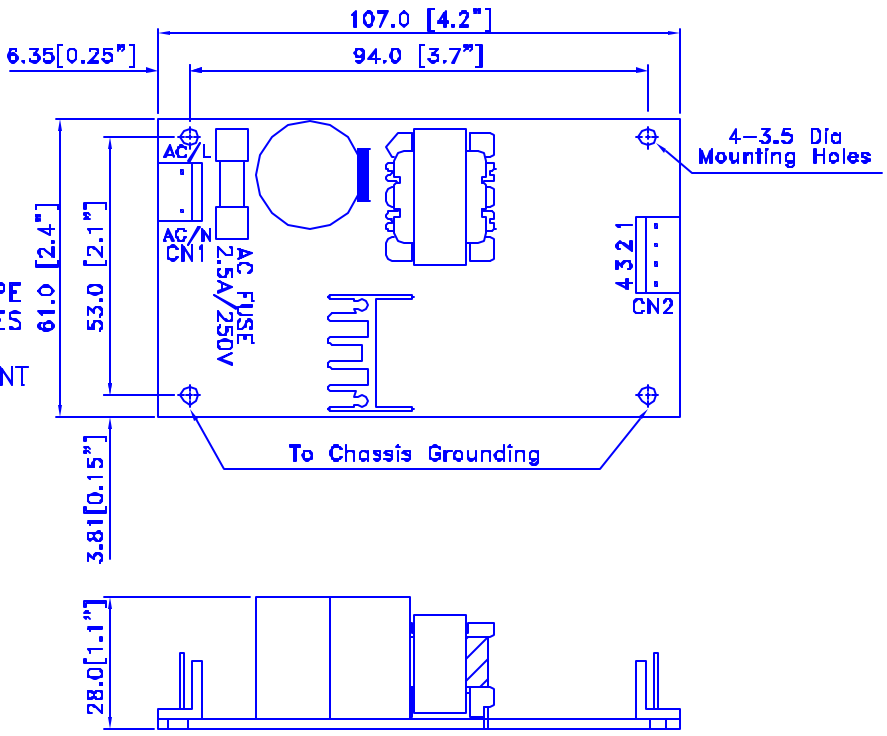


STATIC CHARACTERISTICS

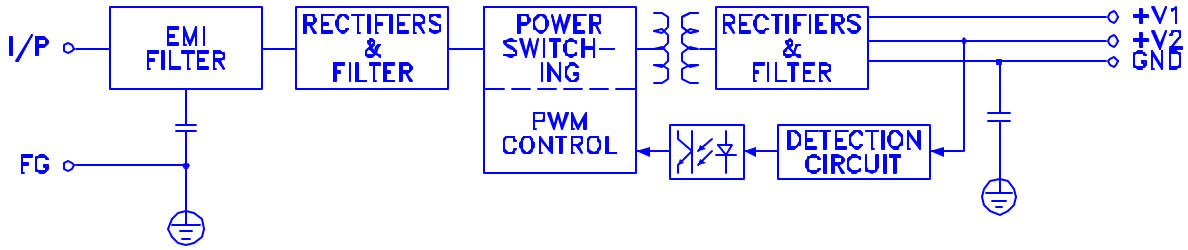


DIMENSION:mm[inch]

- TERMINAL PIN NO. ASSIGNMENT
  - CN1 : MOLEX 41791-03
    PIN 1,3 : AC INPUT
  - CN2 : MOLEX 41791-04
    PIN 1 : DC OUTPUT V1
    PIN 2,3 : DC OUTPUT COM
    PIN 4 : DC OUTPUT V2
- MATING CONNECTORS
  - CN1,2 MATING CONNECTOR TYPE MOLEX 2139 AND 3069 SERIES OR EQUIVALENT WITH MOLEX 2478 AND 2578 OR EQUIVALENT CRIMP TERMINALS.

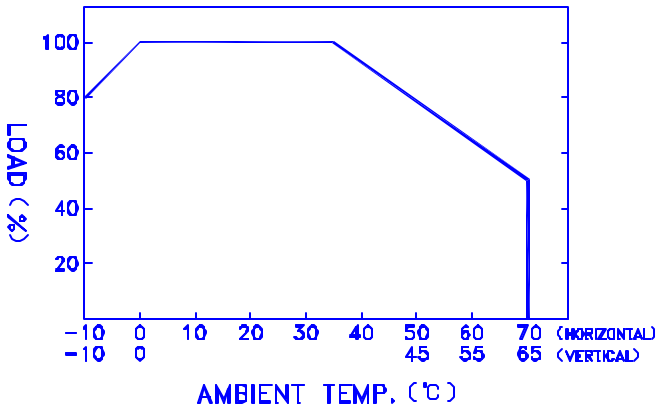


BLOCK DIAGRAM



fosc : 100KHz

OUTPUT DERATING



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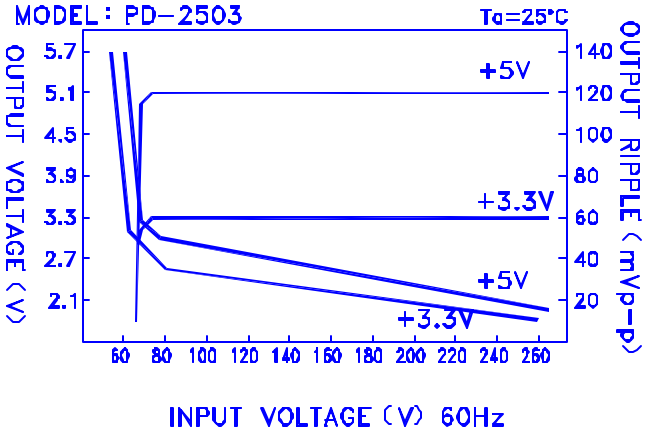
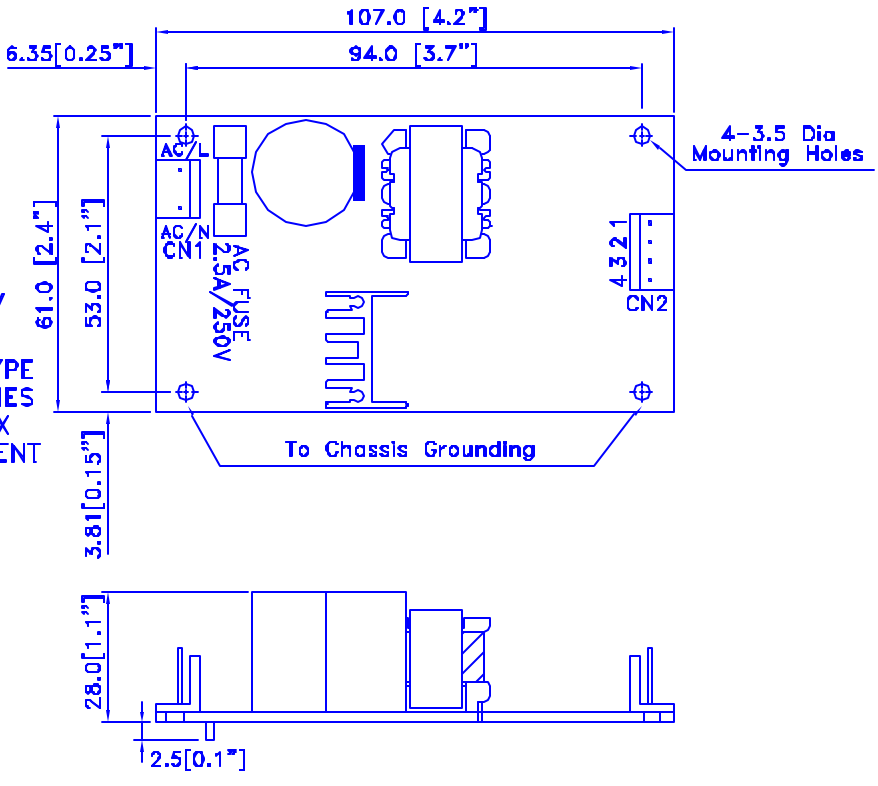


DIMENSION:mm[inch]



- TERMINAL PIN NO. ASSIGNMENT
  - CN1 : MOLEX 41791-03
    PIN 1,3 : AC INPUT
  - CN2 : MOLEX 41791-04
    PIN 1 : DC OUTPUT +5V
    PIN 2,3 : DC OUTPUT COM
    PIN 4 : DC OUTPUT +3.3V
- MATING CONNECTORS
  - CN1,2 MATING CONNECTOR TYPE MOLEX 2139 AND 3069 SERIES OR EQUIVALENT WITH MOLEX 2478 AND 2578 OR EQUIVALENT CRIMP TERMINALS.